U.S. Department of Transportation
Federal Highway Administration
Federal Lands Highway Office

WORKSHEET FOR DETERMINING GRADATION AND ASPHALT CONTENT OF ASPHALT CONCRETE AASHTO T 30, AND MOISTURE CONTENT BY OVEN AND ASPHALT CONTENT BY IGNITION - WFLHD METHODS

Project: _____ Source: _____

Sample of _____ Lot No _____ Sample No. _____

Where sampled: _____ Time Sampled: _____

Sampled by: _____ Date: _____ Tested by: _____

ASPHALT CONTENT BY IGNITION

Reported Ticket Information

A. Furnace chamber set point, °C _____
B. Total Elapsed Time _____
C. Initial Sample Weight, g _____
D. Weight Loss during ignition, g _____
E. Percent Loss, % _____
F. Temperature Compensation, % _____
G. Job Mix Correction Factor [2], % _____
H. Corrected Asphalt Content, % _____

Recorded Data and Calculated Values

I. Wt. of basket assembly and sample before ignition, g _____
J. Basket assembly tare weight, g _____
K. Initial Sample Weight, g [I - J] _____
L. Wt. of basket assembly and residual aggregate, g _____
M. Weight of residual aggregate, g [L - J] _____
N. Weight of residual aggregate after washing, g _____
O. Weight lost during washing, g [M - N] _____
P. Final Corrected % Asphalt by wt of mix [H - U] _____

SIEVE ANALYSIS (AASHTO T 30)

Sieve Size	Wt. [1] Retained	% Retained	% Passing	Target Values	Allowable Deviation
Pan					
Washed -75µm (O)					
Total [3]					
Residual Wt (M)					

[1] All weights are in grams.
[2] Individual oven Job Mix Correction (Calibration) Factor.
[3] Total weight should be within 0.2% of the weight of residual aggregate

MOISTURE CONTENT (OVEN METHOD)

Q. Wt. of sample + container, Initial _____
R. Weight of sample container _____
S. Weight of sample, Initial [Q - R] _____
T. Weight of sample + container, Dry _____
U. Moisture, % [100 x (Q - T) ÷ S] _____

SAND EQUIVALENT (AASHTO T 176)

Cylinder No.	_____	_____	_____
Time (20 min)	_____	_____	_____
Sand reading	_____	_____	_____
Clay reading	_____	_____	_____
Sand Equivalent	_____	_____	_____

Average SE value _____

FRACTURED FACES (FLH T 507)

V. Weight of Fractured aggregate, g _____
W. Weight of Non-Fractured aggregate, g _____
X. Percent Fractured, % [100 x V ÷ (V + W)] _____

REMARKS: _____